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Developing a data publication workflow: collaboration between units at Purdue

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DEVELOPING A DATA PUBLICATION WORKFLOW

COLLABORATION BETWEEN UNITS AT PURDUE

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Data Specialist, Assistant Professor of Library Science

Wednesday, March 26, 2014

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CASE STUDY

PURDUE LIBRARIES & THE JOINT TRANSPORTATION RESEARCH PROGRAM

COLLABORATORS

PUL AND JTRP

Players:

- Purdue University Libraries (PUL)
 - Data & Metadata Services
 - D2C2
 - Purdue University Press
- Joint Transportation Research Program
- Civil Engineering Faculty

Shared goals:

- Compliance with funder requirements
- Expose data
- Create an integrated publishing workflow linking tech reports and data

Actions:

- Identify use case
- Stage datasets in PURR
- Format and stage technical report
- Linking the data





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A SERVICE MODEL OF COLLABORATION

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Linking Pressure and Saturation through Interfacial Areas in Porous Media
By V. Niasar, S. Hassanizadeh, L. Pyrak-Nolte, C. Berentsen
Purdue University, University of Utrecht

Supplementary materials for the paper: Cheng, J.-T., L. J. Pyrak-Nolte, D. D. Nolte, and N. J. Glendon (2004). Linking pressure and saturation through interfacial areas in porous media

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Technical Reports from 2012

FWHA/IN/JTRP-2012/01, [Analysis and Methods of Improvement of Safety at High-Speed Rural Intersections](#), Andrew P. Tarko, Samuel Leckrone, and Panagiotis Anastasopoulos, SPR-3316

FWHA/IN/JTRP-2012/02, [Identifying Traffic Safety Needs – A Systematic Approach: Research Report and User Manual](#), Andrew P. Tarko, Shafiu Md Azam, Jose Thomaz, and Mario Romero, SPR-3315

FWHA/IN/JTRP-2012/03, [Evaluation of Reclaimed Asphalt Pavement for Surface Mixtures](#), Rebecca S. McDaniel, Karol J. Kowalski, and Ayesha Shah, SPR-3018

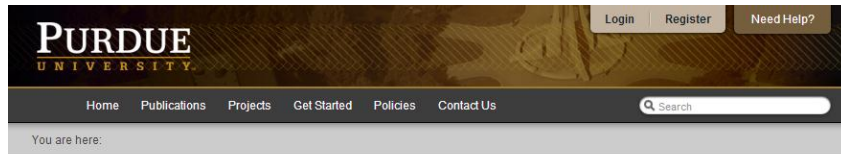
FWHA/IN/JTRP-2012/04, [Evaluation of Pavement Surface Friction Treatments](#), Shuo Li, Samy Noureldin, Yi Jiang, and Yanna Sun, SPR-3088

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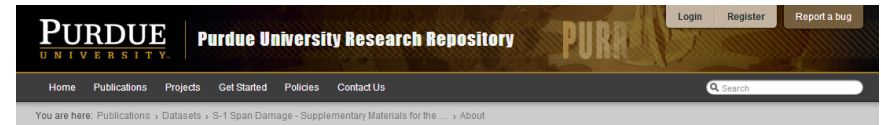
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S-1 Span Damage - Supplementary Materials for the Report: Effects of Realistic Heat Straightening Repair on the Properties and Serviceability of Damaged Steel Beam Bridges

By Amit H. Varma¹, Youngmoo Sohn¹
Purdue University

Supplementary Materials for the Report: Effects of Realistic Heat Straightening Repair on the Properties and Serviceability of Damaged Steel Bridges

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Abstract Guidelines for conducting heat straightening repair have been developed by FHWA and many DOTs. The guidelines establish limits for: (a) the maximum damage that can be repaired, (b) the maximum restraining force, and (c) the maximum heating temperature to prevent the side effects of heat straightening repair process.

However the heat straightening guidelines are violated in the field due to time and economic issues. These violations include, but are not limited to: (a) under heating below 1200°F, (b) over heating above 1200°F, (c) over straining above restraining force limit (0.5 Mp) and (d) multiple heat straightening of the same beam more than two times.

Currently, there is a lack of knowledge of the effects of these imperfections in the heat straightening repair process on the condition and serviceability of the damaged-repaired beams. This knowledge is needed to develop more realistic guidelines for evaluating and replacing bridge members subjected to damage followed by imperfect heat straightening repair.

The overall goal of this research is to develop recommendations and guidelines for evaluating steel beam bridges in Indiana subjected to damage followed by heat straightening repair with imperfections (overstraining, overheating, or multiple heat straightening).

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Amit H. Varma, Youngmoo Sohn, (2013), "S-1 Span Damage - Supplementary Materials for the Report: Effects of Realistic Heat Straightening Repair on the Properties and Serviceability of Damaged Steel Beam Bridges". (DOI: 10.4231/D3RJ48V2G)
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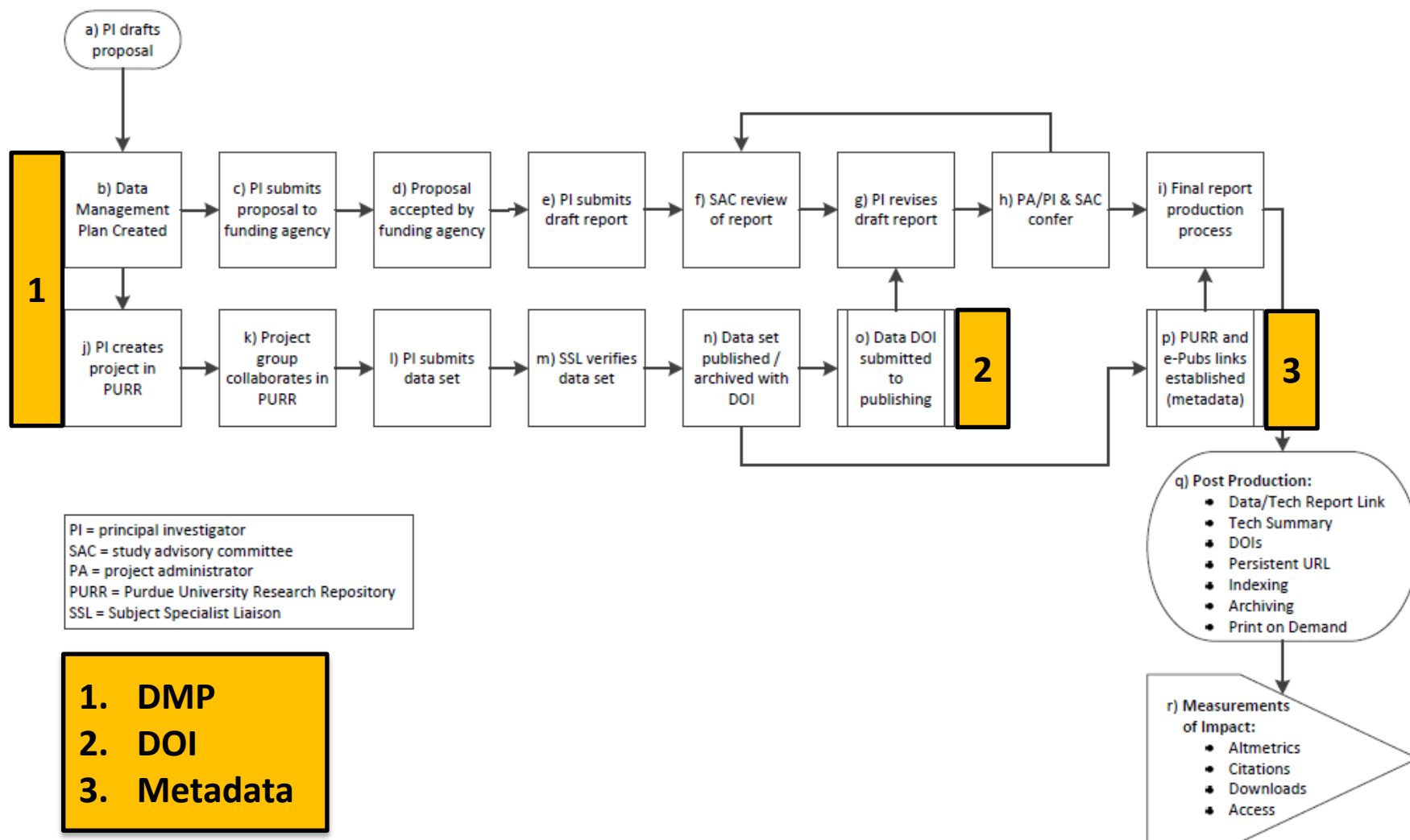
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TECHNICAL REPORT

- Varma, A. H. and Y. Sohn, "[Effects of Realistic Heat Straightening Repair on the Properties and Serviceability of Damaged Steel Beam Bridges](#)," Publication FHWA/IN/JTRP-2013/03, Joint Transportation Research Program, Indiana Department of Transportation and Purdue University, West Lafayette, Indiana, 2013. (DOI: 10.5703/1288284315184).

DATA

- Amit Varma, Youngmoo Sohn, (2013), "ADJUSTING FORCE - Supplementary Materials for the Report: Effects of Realistic Heat Straightening Repair on the Properties and Serviceability of Damaged Steel Beam Bridges": (DOI: [10.4231/D3SF2MC0W](#))
- Amit Varma, Youngmoo Sohn, (2013), "DAMAGED GIRDER - Supplementary Materials for the Report: Effects of Realistic Heat Straightening Repair on the Properties and Serviceability of Damaged Steel Beam Bridges": (DOI: [10.4231/D3X63B541](#))
- Amit Varma, Youngmoo Sohn, (2013), "FORCE SYSTEM 1 - Supplementary Materials for the Report: Effects of Realistic Heat Straightening Repair on the Properties and Serviceability of Damaged Steel Beam Bridges": (DOI: [10.4231/D3NS0KX8Z](#))
- Amit Varma, Youngmoo Sohn, (2013), "FORCE SYSTEM 2 - Supplementary Materials for the Report: Effects of Realistic Heat Straightening Repair on the Properties and Serviceability of Damaged Steel Beam Bridges": (DOI: [10.4231/D3J09W45G](#))
- Amit Varma, Youngmoo Sohn, (2013), "FORCE SYSTEM 3 - Supplementary Materials for the Report: Effects of Realistic Heat Straightening Repair on the Properties and Serviceability of Damaged Steel Beam Bridges": (DOI: [10.4231/D30Z70W9F](#))
- Amit Varma, Youngmoo Sohn, (2013), "N-1 Span Damage - Supplementary Materials for the Report: Effects of Realistic Heat Straightening Repair on the Properties and Serviceability of Damaged Steel Beam Bridges": (DOI: [10.4231/D3W66984S](#))
- Amit Varma, Youngmoo Sohn, (2013), "N-2 Span Damage - Supplementary Materials for the Report: Effects of Realistic Heat Straightening Repair on the Properties and Serviceability of Damaged Steel Beam Bridges": (DOI: [10.4231/D38G8FH7Z](#))
- Amit Varma, Youngmoo Sohn, (2013), "S-1 Span Damage - Supplementary Materials for the Report: Effects of Realistic Heat Straightening Repair on the Properties and Serviceability of Damaged Steel Beam Bridges": (DOI: [10.4231/D3RJ48V2G](#))
- Amit Varma, Youngmoo Sohn, (2013), "S-2 Span Damage - Supplementary Materials for the Report: Effects of Realistic Heat Straightening Repair on the Properties and Serviceability of Damaged Steel Beam Bridges": (DOI: [10.4231/D34Q7QQ3T](#))
- Amit Varma, Youngmoo Sohn, (2013), "TEMPERATURE - Supplementary Materials for the Report: Effects of Realistic Heat Straightening Repair on the Properties and Serviceability of Damaged Steel Beam Bridges": (DOI: [10.4231/D3D795B1Q](#))

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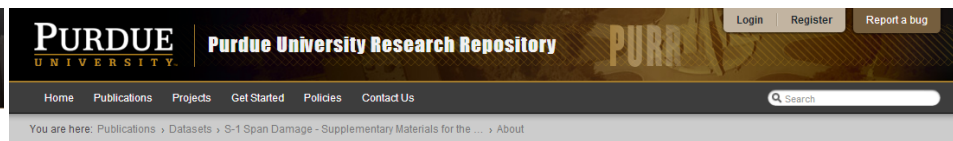
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S-1 Span Damage - Supplementary Materials for the Report: Effects of Realistic Heat Straightening Repair on the Properties and Serviceability of Damaged Steel Beam Bridges

By Amit H. Varma¹, Youngmoo Sohn¹
Purdue University

Supplementary Materials for the Report: Effects of Realistic Heat Straightening Repair on the Properties and Serviceability of Damaged Steel Bridges

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Effects of Realistic Heat Straightening Repair on the Properties and Serviceability of Damaged Steel Beam Bridges



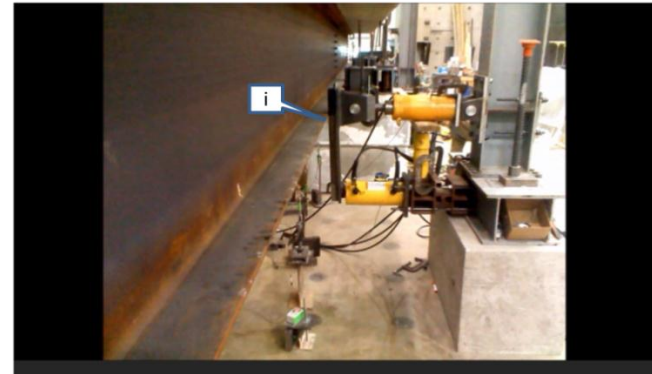
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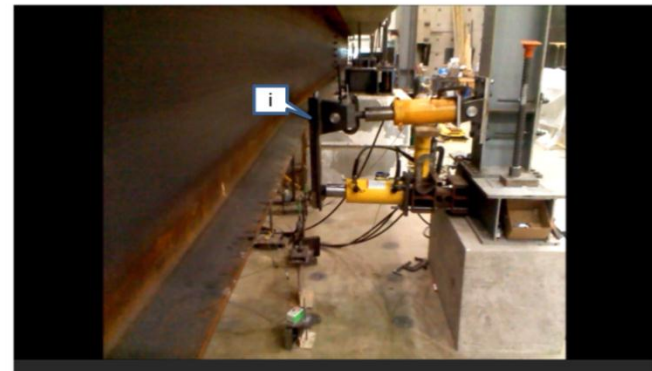
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